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## (54) HANDWRITING RECOGNITION DEVICE

(57)Abstract:

PURPOSE: To recognize a handwritten character including a (running hand character) and a (simplified form character) stably at a high recognition rate.

CONSTITUTION: A dictionary storage part 10 stores a reference pattern in unit of sub-pattern easy to write with one stroke. A stroke processing part 5 extracts a feature point representing the feature of a curvature part in advance before normalization. A feature resampling part 8 performs the normalization, interpolation and noise elimination at every chain of stroke, and interpolates an off-stroke section with the feature point. A character recognition part 9 performs DP matching using the reference pattern in unit of sub-pattern. In such a way, the feature of the curvature part is prevented from being lost due to the normalization by sampling the feature point of the curvature part before the normalization. Also, the accuracy of the DP matching is improved and a time is reduced by the feature point extracted by using both an equal division method and an angle method and a standard pattern for every sub-pattern. Also, it is possible to deal with the (running hand character) and the (simplified form character) by performing write with one stroke by interpolating the off-stroke section.



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